

ABSTRACT

A portable computer system comprises a main body to which a power supplying unit is connected, and an LCD apparatus having an LCD panel operated by electric power supplied by the power supplying unit and a back light for illuminating the LCD panel. The system further comprises: a DC/AC inverter for supplying AC power to the back light; a contrast sensing part for sensing contrast of a video signal displayed on the LCD panel; a DC converter for converting a PWM signal outputted from the contrast sensing part into a DC signal; a voltage controller provided between the DC converter and the DC/AC inverter, and causing the DC signal from the DC converter to be appropriate for an operating voltage of the DC/AC inverter so as to supply the operating voltage to the DC/AC inverter; and a controller connected in series with the DC/AC inverter for sensing the operating voltage of the DC/AC inverter, and for controlling the voltage controller on the basis of the operating voltage. With this configuration, the brightness of a back light can be automatically controlled according to a contrast sensed by a contrast sensing part regardless of the input impedance of the inverter.